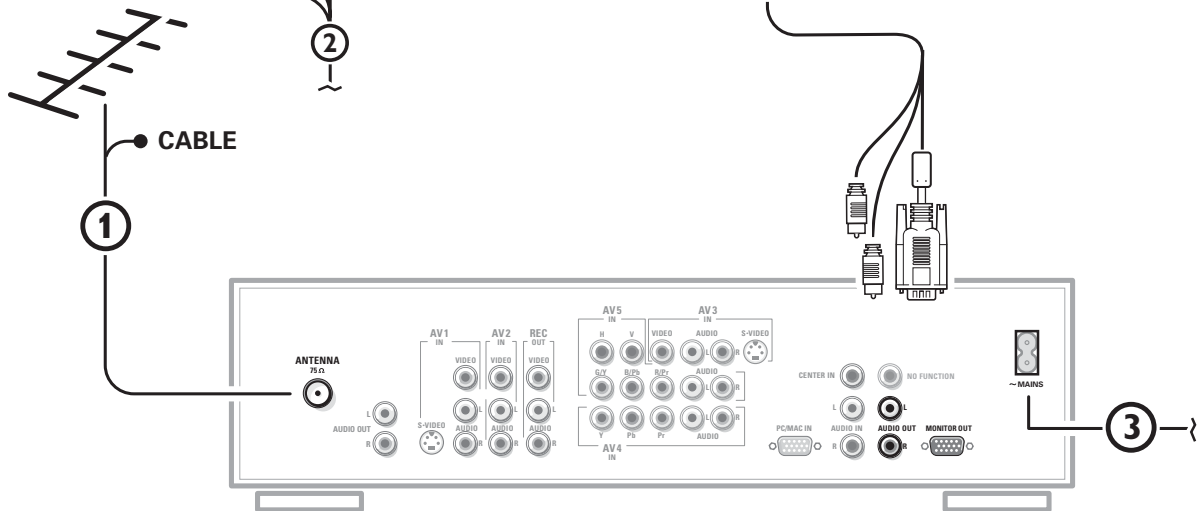
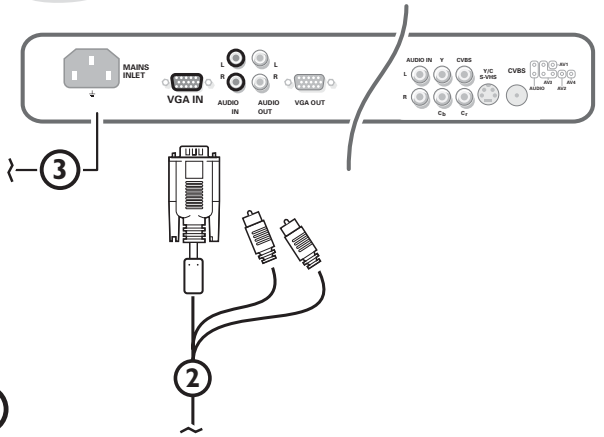
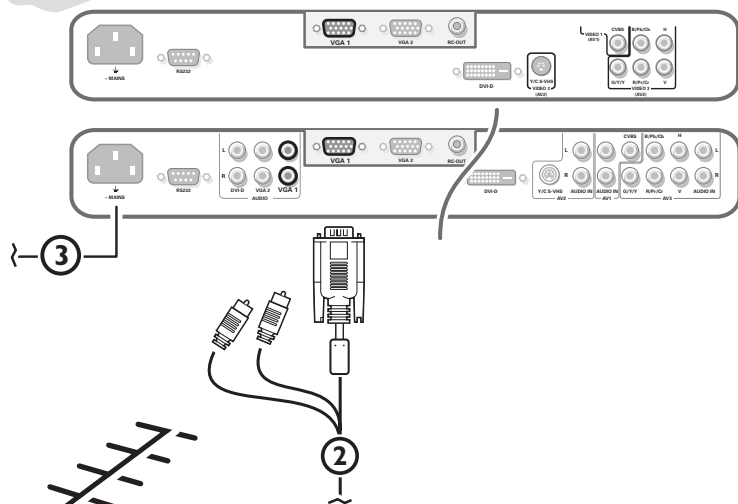
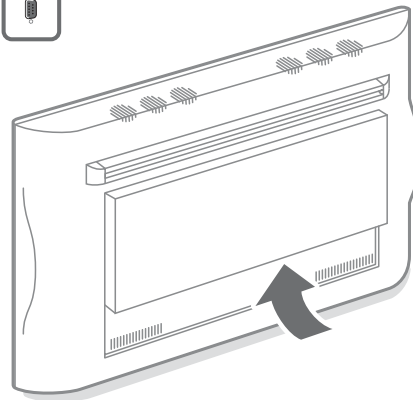
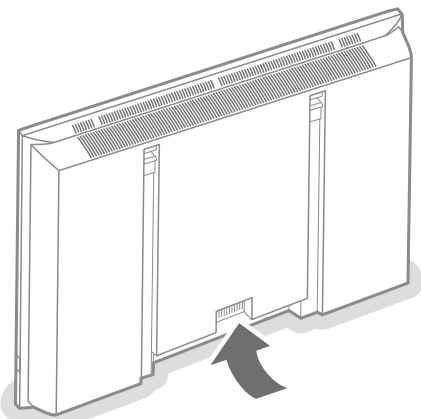
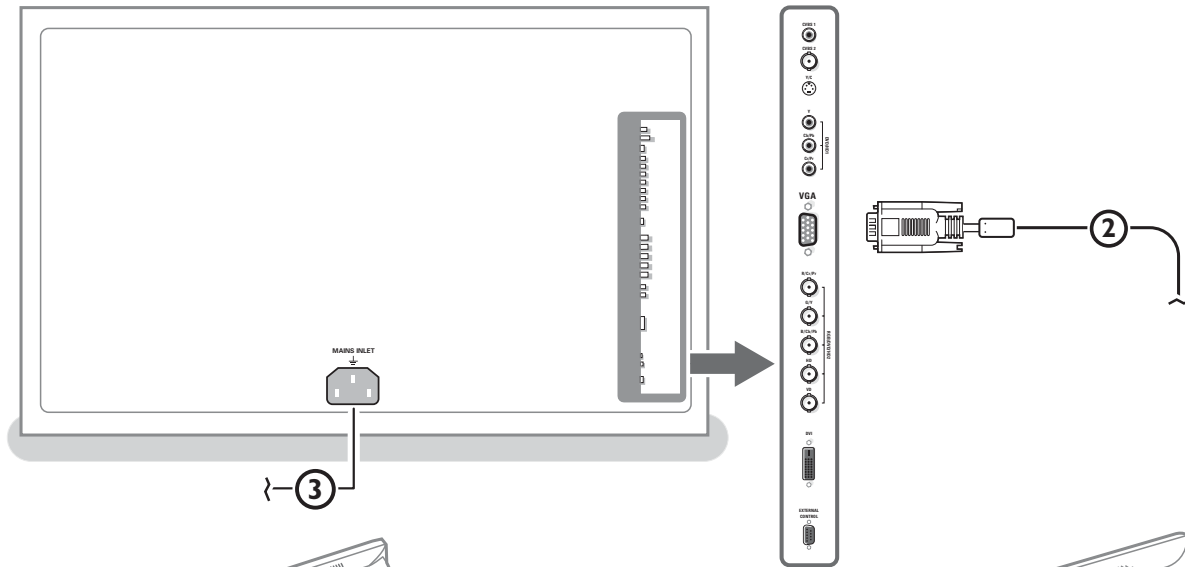




Let's make things better.



PHILIPS



Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once, and take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

PHILIPS

Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome-and thanks for investing in a PHILIPS product.

Sincerely,




Lawrence J. Blanford
President and Chief Executive Officer


P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!



Know these
safety symbols



 This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

 The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No., which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____




PHILIPS

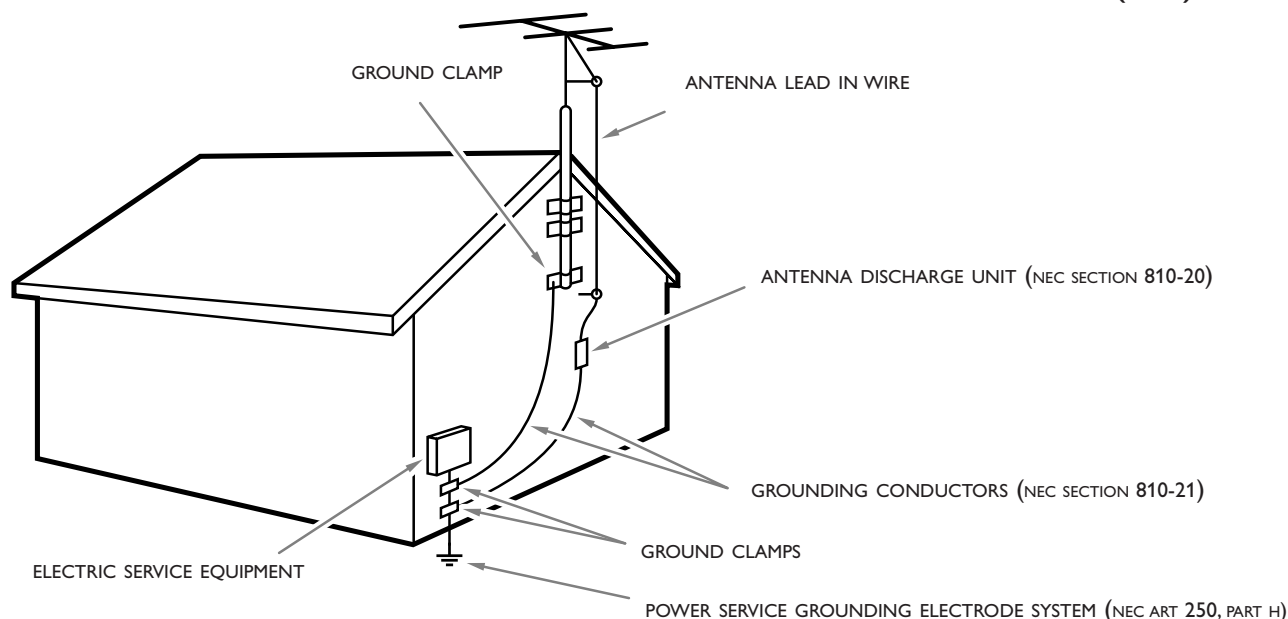
Visit our World Wide Web Site at <http://www.philips.com>

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead or mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinets design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Power Lines** - An outdoor antenna should be located away from power lines.
19. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the masts and supporting structure grounding of the lead-in wire to an antenna-discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure below.
20. **Objects and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE (NEC)



Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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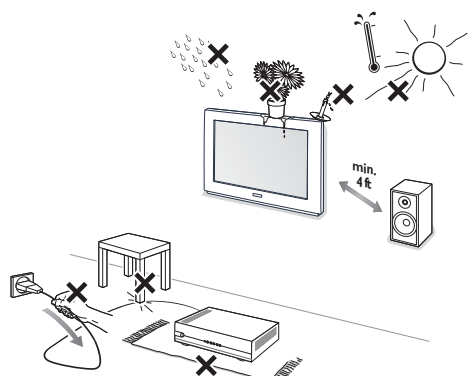
Help?

If this instruction manual does not give an answer or if 'Before Calling Service' do not solve your TV problem, you can call your Local Philips Customer or Service Center. See the supplied World-wide guarantee booklet. Please, have the Model and Product number which you can find at the back of your television set or on the packaging, ready, before calling the Philips helpline (800-531-0039).

Model:
Product No:

Preparation

Do not insert the power plug in a wall socket before all connections are made.



- 1 Place the receiver box wherever you want, but make sure that air can circulate freely through the ventilation slots. Do not install the receiver box in a confined space such as a book case or a similar unit.

To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed on or in the vicinity. Avoid heat, direct sunlight and exposure to rain or water.

The equipment must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on it.

- 2 Connect the antenna cable ① and the **VGA** cable with trailing audio cinch connectors ② as shown in the inside frontcover of this handbook. Make sure all screws of the cable ② are tightened well.

TV receiver box with speakerless monitor

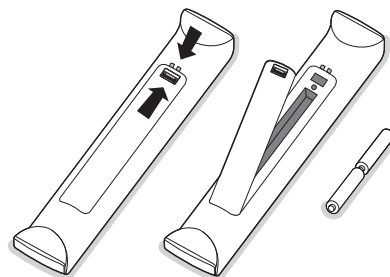
In case you connect your TV receiver box with a speakerless monitor, all references made in this instruction book to sound reproduction, volume control, and audio connections, are not applicable (except for a headphone connection).

The buttons on the remote control referring to sound have no function either.

- 3 To connect your computer, see the separate supplied instruction manual with your monitor.
To connect other accessory devices, see p. 16.
In order to obtain the best result, please use only the supplied antenna cables between the receiver box and videorecorder, and between videorecorder and antenna connector.

- 4 Insert the power cord supplied ③ into the **MAINS** at the back of the monitor and the power cord ④ at the back of the receiver. Put both in the wall sockets with an AC power supply of 110 V. Consult your local dealer if your AC power supply is different.
Please, only use the power cord ③ supplied with the monitor, for the monitor, and use the power cord supplied with the receiver, only for the receiver.

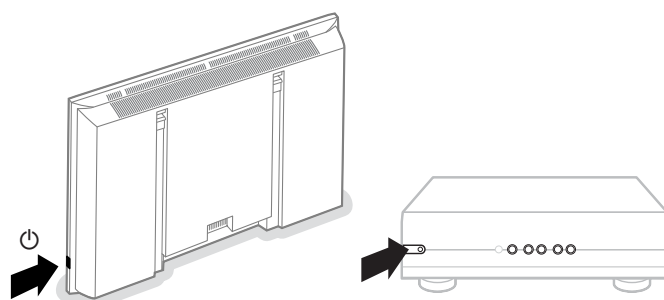
- 5 Remote control: Remove the cover of the battery compartment. Insert the 2 batteries supplied (Type R6AA-1.5V).



The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many areas exhausted batteries may not be disposed of with your household waste. Please check on how to dispose of batteries according to local regulations.

- 6 **Turn the receiver on :** Press the power button ① at the right side of the monitor and the one on the front of the receiver box.
A green indicator and the screen light up.

Note: After turning on your TV receiver box with the power switch, wait about 5 seconds to turn on your PDP Flat TV monitor.



The green indicator blinks every time you press a button on the remote control.

When you turn on your set **for the first time**, the menu **LANGUAGE** automatically appears on the screen. Alternately the explanation appears in different languages.

Use of the remote control



Press this button repeatedly to select **AV1, AV2, AV3, AV4, AV5, FRONT, VGA** or **TV channels** when in TV mode, according to where you connected the accessory devices (p. 16).

Remark : in VGA mode only some buttons are valid. See VGA menu, p. 20.



CBL VCR DVD SAT AMP

Press the **Select** button repeatedly to select one of the system modes in which the remote control can be used. If no action is being undertaken within 60 seconds, the remote control returns to TV mode.

After an action in the selected system mode the remote control will remain in this mode for 60 seconds and will then return to TV mode.



Backlighting button

Press the **Select** button more than 2 seconds. The backlighting of the buttons , **CH**,  and the digit buttons stays on for 5 seconds after pressing the button.

Freeze/Replay/Photo finish

This function is not available with a VGA or HD source.

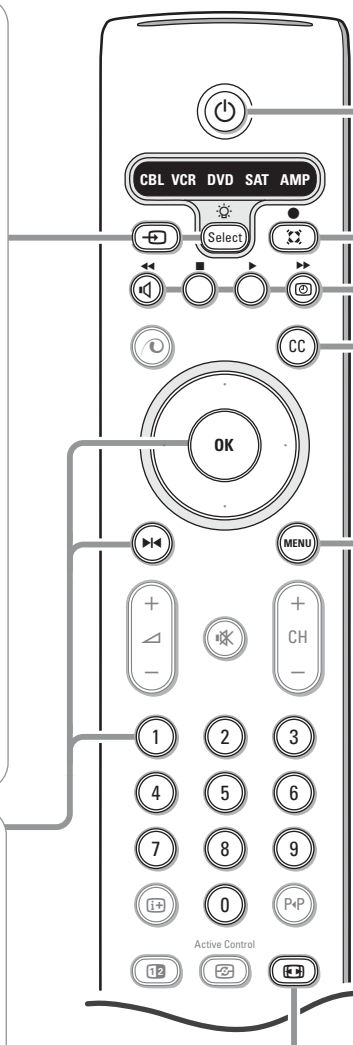
To freeze the picture, see p 8.

OK Press this button to activate your choice or to confirm when in the menus.

0/9 Digit buttons

To select a TV channel.

For a two or a three digit TV channel, enter the second digit within 2 seconds. To switch immediately to a selected one digit TV channel, keep the digit button pressed a bit longer.



POWER

Press to turn on/off the TV.

The TV is never powered off completely unless it is physically unplugged.



Audio and Video equipment buttons.

See p. 20.



Time display



Sound mode

Press this button to select On/Off .



Alternate audio

When you tune a channel where SAP (Second Audio Program) is available, you can toggle between **Main** and **SAP**. If not available, only Main can be selected.

CC Closed Caption

On/Off/On during mute see p. 12

MENU Main menu on/off see p. 7



Picture format

Press this button to summon a list of **available** display formats for showing video images in the traditional 4:3 proportions.

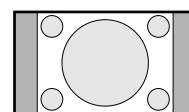
Press this button repeatedly or press the cursor up/down to select another picture format: Automatic, Super zoom, 4:3, Movie expand 14:9, Movie expand 16:9, 16:9 Subtitle, Wide screen.

Automatic makes the picture fill the screen as much as possible.

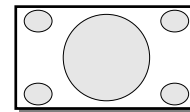
Super zoom removes the black bars on the sides of 4:3 programs with minimal distortion.

When in Movie expand 14:9, 16:9 or Super zoom picture format, you can make subtitles visible with the cursor up/down.

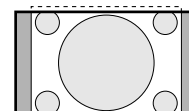
Note : In VGA mode press the  button to switch between a 4:3 or a Widescreen picture format. In Dual screen mode press the  button to switch between a full or a 4:3 letterbox picture format.



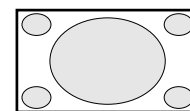
4:3



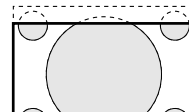
Super zoom



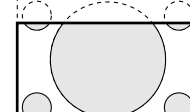
Movie expand 14:9



Wide screen



Movie expand 16:9



16:9 Subtitle

Note : In case you connect your TV receiver box with a speakerless monitor, and without having connected an audio receiver, all references to sound reproduction, volume control, and audio connections, are not applicable (except for a headphone connection). The keys on the remote control referring to sound have no function either.

Pixel Plus demo on/off

In the right part Pixel Plus and Digital Natural Motion is switched on.

Volume

To adjust the volume.

Mute

Interrupt the sound or restore it.

CH **Channel selection**

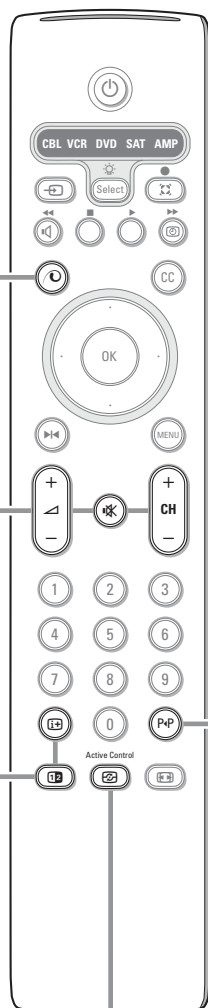
To browse through the TV channels or sources stored.

Display information

Press to display (when available) information about the current channel and program or source: number, name, local time, video and audio formats of the incoming signal, CC availability, availability of alternate or secondary audio programs (a plus sign appears if you have more than one choice), ratings, display format, sound mode and (if on) the Sleep timer icon and the minutes remaining, the On timer settings.

Dual screen/PIP on/off

See Settings, General menu, Dual screen format, p. 8 and Dual screen, p. 15.



PiP Surf

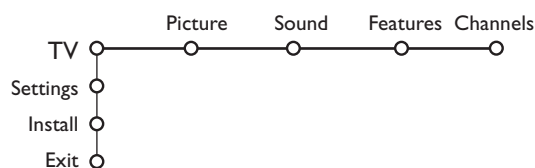
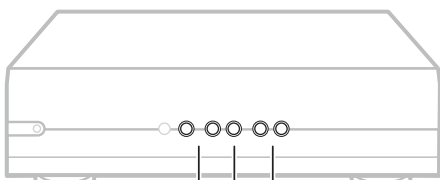
With this button you can easily switch between 2 up to 9 different TV channels/sources. See Settings, General, Surf, p. 8. Press the **OK** button or wait for the time out to dismiss the Surf display.



Active Control

See p. 10.

Buttons in front of the TV receiver box




Should your remote be lost or broken you can still change some of the basic settings with the buttons in front of the TV receiver box.

Press:

- the **VOLUME** - or + button to adjust the volume;
- the - **CH** + button to select the TV channels or sources.

The **MENU** button can be used to summon the main menu without the remote control.

Use:

- the  - and + buttons and the **CH-** and **CH+** buttons to select menu items in the directions as shown;
- the **MENU** button to confirm your selection.

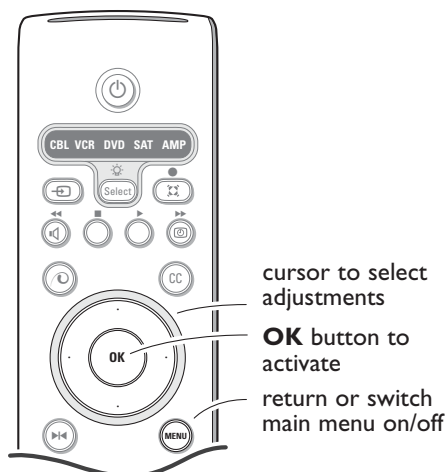
Note:

When activated via the **MENU** button in front of the TV receiver box, only **Exit** lets you dismiss the menu.

Navigate to **Exit** and press the **MENU** button.

Note : In case you connect your TV receiver box with a speakerless monitor and without having connected an audio receiver, all references made to sound reproduction and volume control are not applicable.

To use the menus

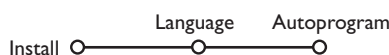


- 1 Press the **MENU** button on the remote control to summon the main menu. At any moment you can exit the menu by pressing the **MENU** button again.
- 2 Use the cursor in the up/down direction to select the **TV**, **Settings** or **Install** menu.
Note: Sometimes not all the menu items are visible on the screen (indicated by a cluster of blue balls). Press the cursor down to reveal all items.
- 3 Use the cursor in the left/right direction to select the menu item.
- 4 Use the cursor up/down again to select the control you want to select or to adjust.

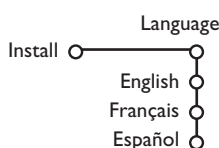
Note: Items temporary not available or not relevant are displayed in a light grey color and cannot be selected.

Installation

The installation menu contains the following items :

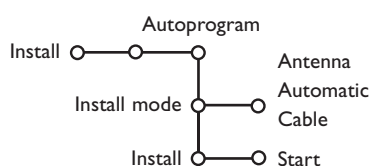


Select the menu language



- 1 Press the **MENU** button on the remote control.
- 2 Use the cursor down to select **Install**.
- 3 Use the cursor right to select **Language**.
Follow the instructions on screen.
- 4 Use the cursor up/down to select your preferred language and press the **OK** button to confirm your selection.
- 5 Proceed with the **Install** menu.

Store TV channels



Available channels:

- with cable: max. from 1 to 125
- off air: max. from 2 to 69

Note: In case a particular channel is too weak for the autoprogramming to identify, after installation is complete, you should tune to that channel by using the digit buttons on the remote control. If the channel is not acquired, a message will appear that the channel is not available.

- 1 Select **Autoprogram** in the Install menu.
- 2 Press the cursor down to select **Install mode**.
- 3 Press the cursor right.
*Note: It is recommended to keep the predefined **Automatic** way of autoprogramming. In case of difficulties in autoprogramming with the automatic method, choose for Antenna or Cable whether antenna or cable signals are present.*
- 4 Press the cursor down to select **Install**.
Note: All channels must be unlocked in order to autoprogram. If requested, enter your PIN code to unlock all channels. (See Channels in the TV menu, p. 12.)
- 5 Press the cursor right.
- 6 The message **Searching** appears and the progress of autoprogramming is displayed. When Autoprogramming is complete, the puck navigates to Stop. A message appears confirming the completion together with the total number of channels found.

Note: when you navigate to Stop before autoprogramming is complete, you are given the option to continue.

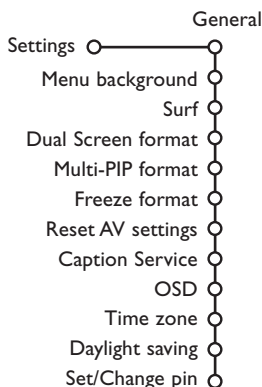
Settings menu



The **General** menu allows you to change settings that will typically be accessed only occasionally. The **Source** menu allows you to select a source.

General

This menu allows you to change various settings that are presumably adjusted less frequently than most other settings.



Menu Background

- 1 Select **Menu Background** with the cursor down.
- 2 Press the cursor right.
- 3 Select **On** or **Off** to turn the Menu Background on or off.

Surf

- 1 Select **Surf**.
- 2 With the cursor right, select :
 - **2 channels** if you want the P+P button to toggle between the current and the previously selected channel,
 - **9 channels** if you want the P+P button to summon a list of up to 9 channels which can be selected,

To add/remove a channel or source :

Tune to the channel or source you wish to add or remove. Press the P+P button and press the cursor right to add or remove.

Note: If there are already 9 channels/sources in the list, the one at the bottom of the list will be removed.

Dual screen format

This menu allows you to select the preferred format which can then be displayed toggling the **12** button on and off. See Dual Screen/PIP/Multipip, p. 15.

Select **Dual Screen, Large PIP, Medium PIP, Small PIP, PIP3, PIP8 or PIP12** with the cursor down.

When Dual Screen mode is activated with the remote control **12** button, and when :

- **Dual screen** is selected, the TV splits the screen into two equally sized screens.
- **PIP** is selected, the TV shows a full screen of video with a pip window of video on top of it.
- **PIP3, PIP8 or PIP12** is selected, the TV will display 3, 8 or 12 pip screens.

Freeze format *(not available for HD and VGA sources)*

Freeze format allows you to select among three options: Freeze, Replay, Photo finish, to be activated when you press the **14** button on the remote control. See p. 5. In this menu you can select which option you prefer.

*Note: Continuing to hold the **14** button down will also cycle the TV through the various formats. Changing the format this way does not store the selected format.*

- 1 Select **Freeze format** with the cursor down.
- 2 Press the cursor right.
- 3 Select Freeze, Replay, Photo finish with the cursor up/down.

Reset AV settings

This function allows you to reset most of the picture and sound settings to their predefined factory states.

- 1 Select **Reset AV settings** with the cursor down.
- 2 Press **OK** to erase settings and reset them to their default values.

Caption Service

Closed Captioning allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen 'text boxes' to show dialogue and conversations while the TV program is in progress. Captions will appear on the screen during captioned broadcasts.

Note: The captions do not always use correct spelling and grammar.

Not all TV programs and product commercials are made for broadcast with Closed Caption information included. Refer to your area's TV program listings for the TV channels and times of Closed Caption shows. The captioned programs are usually noted in the TV listings with service marks such as 'CC'.

- 1 Select **Caption Service** with the cursor down.
- 2 Press the cursor right.
- 3 Select the desired **Caption Service**

• CC 1, 2, 3 or 4

Dialogue (and descriptions) for the action on the captioned TV program shows on screen.

Usually CC 1 is the most used. CC 2 may be used for alternate languages if they are being transmitted.

• T 1, 2, 3 or 4

Often used for channel guide, schedules, bulletin board information for Closed Caption programs, news, weather informations or stock market reports.

Not all Caption Services are necessarily being used by a TV channel during the transmission of a Closed Caption program.

- 4 See Closed Captions in the TV-Features menu, p. 12, to turn the **Caption Service On or Off**.

Note: This television receiver provides display of television Closed Captioning conforming with the EIA-608 standard and in accordance with Sections 15.119 of the FCC rules.

OSD (On Screen Display)

- 1 Select **OSD** with the cursor down.
- 2 Press the cursor right to select **Normal** or **Minimum**.
Normal to activate extended display of TV channel and channel information on screen.
Minimum to activate the display of reduced channel information.

Time zone

This function allows you to select your local time zone. Broadcasted time information will correct the clock display for your local time.

- 1 Select **Time zone** with the cursor down.
- 2 Press the cursor right.
- 3 Select your local time zone with the cursor up/down.

Daylight saving

Daylight saving time is automatically set by specially broadcasted signals. This menu item allows you to disable the automatic setting of daylight saving time. This is useful if you live in an area or state where daylight saving is not applied, but you receive channels from other areas where daylight saving signals are broadcasted.

- 1 Select **Daylight saving** with the cursor down.
- 2 Press the cursor right to select **Automatic** for automatic clock correction for daylight saving time, based on specially broadcasted signals.
- 3 Select **Off** to disable automatic clock correction based on the specially broadcasted signals.

Set/Change pin

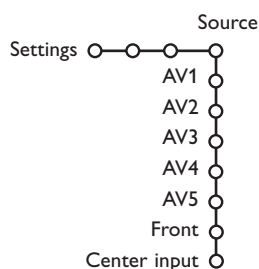
The Set/Change pin menu item allows you to create or change a Personal Identification Number (PIN).



- 1 Select **Set/Change pin** with the cursor down.
- 2 If no PIN exists yet, the menu item is set to **Set pin**. Follow the instructions on screen.
If a PIN has previously been entered, the menu item is set to **Change pin**. Follow the instructions on screen.
All number combinations from 0000 to 9999 are valid numbers.
- 3 The General menu reappears with a message confirming that the PIN has been created.

Important: You have forgotten your PIN !

- 1 Select **Set/Change pin** in the General menu.
- 2 Press **OK**.
- 3 Press the cursor right.
- 4 Enter the overriding pin 0-7-1-1.
- 5 Press the cursor again and enter a new personal 4-digit pin. The previous pin is erased and the new pin is stored.

Source

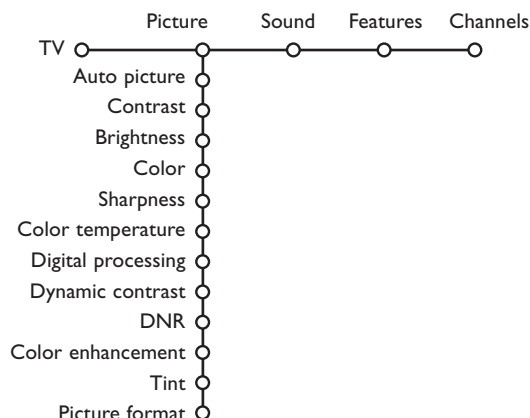


- 1 Select **Source** with the cursor right.
- 2 Press the cursor down to select one of the external AV inputs.
- 3 Press the cursor right to enter the list of types of devices attached to the selected input.
- 4 Select the accessory device with the cursor up/down. Once you have named the source, e.g. VCR, this source will automatically be selected when your remote control is in VCR mode, see p.6, and when you press the  button on the remote control.
- 5 Press the **MENU** button on the remote control to turn off all menus on screen.
- 6 Press the  button on the remote control. The Source Select menu appears in which you may select a source or peripheral connected to be displayed on screen.

Center input

When you have connected a multichannel surround receiver to the receiver box, the loudspeakers of the monitor (not available in combination with a speakerless monitor), can act as center speaker, making a separate center speaker unnecessary.

Select **Center input On**.

Picture menu


Press the cursor right to select **Picture**.

Select the menu items in the Picture menu with the cursor up/down. Adjust the settings with the cursor left/right or enter the list of submenu items with the cursor right. Select a submenu item with the cursor up/down.

Note: To remove the menu background before adjusting the picture settings, see *Settings, General*, p. 8.

Note: The items Sharpness, Digital processing, Dynamic contrast, DNR, Color enhancement and Picture format are not available for digital signals via AV4 and AV5.

Auto picture

Select **Auto picture** to display a list of predefined picture settings, each corresponding with specific factory settings. **Personal** refers to the personal preference settings in the picture menu.

Contrast

Allows you to adjust the contrast level of the picture.

Brightness

Allows you to adjust the brightness level of the picture.

Color

Allows you to adjust the color saturation of the picture.

Sharpness *(not available for HD sources)*

Allows you to adjust the edge definition of a picture.

Color temperature

Allows you to select from TV channels, the color temperature of the TV picture.

- 1 Press the cursor right to enter the list.
- 2 Select **Normal**, **Warm** or **Cool** with the cursor up/down.
- 3 Press the cursor left to return to the picture menu.

Digital processing *(not available for HD sources)*

- **Progressive scan** = line doubling eliminates line flicker.
- **Pixel Plus** = is the most ideal setting, but you may consider to select **Movie Plus** in case a halo effect should disturb you. Dependent on your own preference, select **Progressive scan** (without motion compensation).

Note: Interference, caused by fluorescent lights just above the TV, may occur when having selected **Pixel Plus**.

Dynamic Contrast *(not available for HD sources)*

Automatically makes the contrast in the darker and the brighter picture areas more noticeable as the image on screen changes. Normally, select **Medium**. It may be preferred to select **Minimum**, **Maximum** or **Off**.

- 1 Press the cursor right to enter the list.
- 2 Select one of the settings with the cursor up/down.
- 3 Press the cursor left to return to the picture menu.

DNR (Digital Noise Reduction)

(not available for HD sources)

Automatically filters out and reduces the image noise and improves picture quality when receiving weak video signals.

- 1 Press the cursor right to enter the list.
- 2 Select **Off**, **Minimum**, **Medium** or **Maximum** according to the image noise.
- 3 Press the cursor left to return to the picture menu.

Color enhancement *(not available for HD sources)*


When activated, this feature automatically controls green enhancement and blue stretch. It makes the colors more vivid.

- 1 Press the cursor right.
- 2 Select **On** or **Off** in order to activate/de-activate Color Enhancement with the cursor right.

Tint *(not available for HD sources)*



Allows you to select the color mix (hue) of the picture.

Picture format *(not selectable for HD sources)*

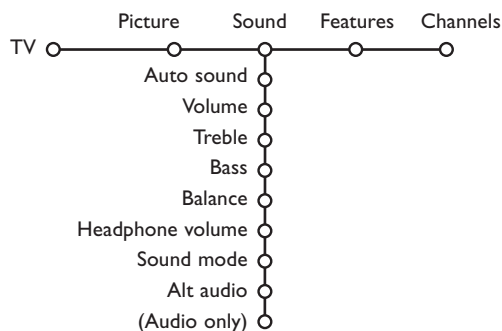
This menu item performs the same as the  button on the Remote Control. See *Use of the Remote Control*, p. 5.

Active Control *(not available for HD sources)*

The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.

- 1 Press the  button on the remote control.
- 2 The Active Control menu appears.
- 3 Press the cursor up/down to select the Active Control values **Off**, **Minimum**, **Medium** (recommended) or **Maximum**. The picture settings are being optimised continuously and automatically which is displayed by bars. The menu items can not be selected.
Note : When having connected a monitor without light sensor, the values are On or Off.
- 4 Press the cursor right to select **Auto Picture**.
- 5 Press the cursor up/down to select one of the predefined picture settings.
- 6 Press the cursor right to select **Active Display**.
- 7 Press the cursor up/down to select **Show bars**, one of the Dual screen demos or **Off**. When you select **Dynamic Contrast**, **Pixel Plus**, **Digital Noise Reduction** or **Digital Natural Motion**, the TV screen is divided into two parts: in the left part the selected picture quality setting is switched off; in the right part it is switched on.
- 8 Press the  key again to switch off the Active Control menu.

(Sound menu)



Note : In case you connect your TV receiver box with a speakerless monitor and without having connected an audio receiver, all references made to sound reproduction, volume control and audio connections are not applicable.

Press the cursor right to select **Sound**.

Select the menu items with the cursor up/down and adjust the settings with the cursor left/right.

Remember, control settings are at normal mid-range levels when the bar scale is centered.

Auto sound

Select **Auto sound** to display a list of predefined sound settings, each corresponding with specific factory settings of treble and bass.

Press the cursor right to enter the list.

Press the cursor up/down to select a predefined sound setting.

Personal refers to the personal preference settings in the **Sound** menu.

Note: The moment you are in a predefined Auto sound setting and you modify a setting in the Sound menu, all values of the menu will overwrite the previously made personal settings.

Volume

Allows you to adjust the volume level.

Treble

Attenuates or amplifies the high-frequency response of the audio output signal.

Bass

Attenuates or amplifies the low-frequency response of the audio output signal.

Balance

Allows you to adjust the balance of the right and left speaker's sound output.

Headphone volume

Allows you to adjust the volume level of the headphone.

Sound mode

Surround Mode can only be selected when the sound of the TV channels is stereo.

When **Sound mode On** is selected, it seems as though the loudspeakers are spread further apart from one another.

Alt Audio

When you tune a channel where SAP (Second Audio Program) is available, you can toggle between **Main** and **SAP**.

Press the cursor right to make your preferred audio selection.

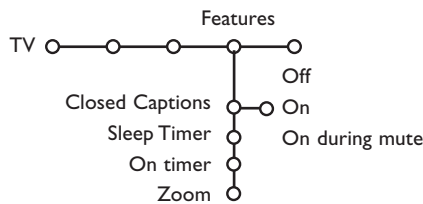
If SAP is not available, only Main is selected.

Audio only

Enables you to blank the TV picture if the monitor is used as center speaker in a configuration with an audio receiver.

Select **Audio only On** to only hear the sound and to switch off the picture.

Features menu



Closed Captions

See Caption Service, Settings menu, General, p. 8.

- 1 Select **Closed Captions** with the cursor down.
- 2 Press the cursor right.
- 3 Select **On**, **Off** or **On during Mute**.

When **On** is selected, the TV will display the currently displayed Caption Service, assuming that the service is available in the broadcast.

When **Off** is selected, the TV will not display Closed Captions information.

When **On during Mute** is selected, the TV will display the currently selected Caption Service when the mute function is active. When the mute function is not active, the TV will not display Closed captions information.

Note:

- When Dual screen format is selected, Closed Captioning (if activated) appears for the main screen only, and it covers the full screen;
- When Multipip 12 is activated, Closed Caption is disabled.

Sleeptimer

With the Sleptimer function you can set a time period after which the TV will turn itself off.

- 1 Select **Sleeptimer** with the cursor down.
- 2 Press the cursor right to set the time.

The counter runs from 0 up to 180 mins (in 5-min increments). When set to 0, the sleeptimer is turned off.

One minute before the sleeptimer expires, a message appears that the TV will turn off in 60 seconds or you may cancel the sleeptimer by pressing the **OK** button. You can always turn off your TV earlier or change the set time.

Note: When a VGA source is selected, the TV will not turn off when the sleeptimer expires.

On timer

Note: The On timer function is only available if time information is available via the local PBS channel.

- 1 Select **On timer** with the cursor down.
- 2 Press the cursor right.
- 3 Select **On** or **Off** to set the On timer On or Off.
- 4 When you have selected **On** press the cursor right.
- 5 Select the TV channel or external source you want the On timer to activate with the cursor up/down.
- 6 Press the cursor right to select the day you would like the On timer to become active.
Select **Daily** to set the On timer for daily operation on the selected TV channel or source.
- 7 Press the cursor right to select **AM** or **PM**.
- 8 Press the cursor right to enter the time with the digit buttons or with the cursor up/down, left/right.
- 9 Press the **OK** button to activate.

Zoom

- 1 Select **Zoom** with the cursor down and press the **OK** button.
- 2 Press the **OK** button to select one of the zoom magnifications (x1, x4, x9, x16).
- 3 Additionally you can shift the selected zoom window over the screen with the cursor buttons up/down, left/right.
- 4 Press the **MENU** key to switch off the zoom function.

- 3 Press the cursor right again to select **AM** or **PM**.
- 4 Press the cursor right once again to enter the time.
- 5 Enter the time with the digit buttons or with the cursor up/down.
- 6 Press the **MENU** button to turn off the menu.

Channel Lock

This feature provides the ability to prevent the viewing of a selected channel. Blocked channels can still be tuned with the digit buttons only, but the picture is greyed and the audio is muted.

- 1 Select **Channel Lock** with the cursor down.
- 2 A list with all stored channel numbers appears. Press the cursor right to enter the list.
- 3 Select the channel you want to lock/unlock with the cursor up/down.
- 4 Press **OK**.

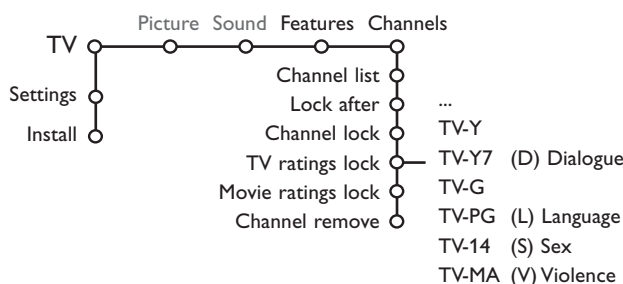
This summons a message that prompts you to enter your PIN. (See Set/Change Pin, p. 9) Follow the instructions on screen.

If the PIN is correct, the channel list reappears, and the color of the box-graphic of the selected channel changes from blue to yellow to indicate the channel is currently locked.

You only have to enter your PIN code once while the menu is active.

- 5 Repeat to lock other channels.

Channels menu



Press the cursor right to select **Channels**.

Select the menu items in the menu with the cursor up/down and adjust the settings with the cursor left/right.

Channel List

The list will display all the stored TV channels.

- 1 Select a channel number with the cursor up/down.
- 2 Press the **OK** button to switch over to the selected TV channel or AV extension.

Lock after

This allows you to activate the childlock after a selectable time delay.

- 1 Select **Lock after** with the cursor down.
- 2 Select **On** with the cursor right.

TV Ratings Lock

Age-based Rating	Content-based Rating
All	none
None	none
TV-Y	none
TV-Y7	(FV) Fantasy Violence
TV-G	none
TV-PG	(D) Dialog (L) Language (S) Sex (V) Violence
TV-14	(D) Dialog (L) Language (S) Sex (V) Violence
TV-MA	(L) Language (S) Sex (V) Violence

TV-Y	appropriate for children of all ages with themes and elements suitable for children aged 2-6
TV-Y7	programs designed for children age 7 and older
TV-Y7-FV	programs include fantasy violence more intense than other programs in the TV-Y7 category
TV-G	programs suitable for all ages. These programs contain little or no violence, no strong language and little or no sexual dialogue or situations
TV-PG	programs contain elements that some parents may find unsuitable for younger children and which may need parental guidance. The program may contain moderate violence, sexual dialogue and/or situations and some strong language.
TV-14	programs contain elements that may not be suitable for children under 14 years of age. These programs include one or more of the following: intense violence, intense sexual situations, suggestive dialogue and strong language.
TV-MA	programs are designed to be viewed by adults and may be unsuitable for children under the age of 17. These programs may contain graphic violence, explicit sexual activity and/or crude or indecent language.

Your TV is equipped with a V-chip. This allows you to control access to individual programs based on their movie and TV ratings. All settings apply to all AV inputs, except AV4 and AV5.

The program content advisory data are sent by the broadcaster or program provider.

- 1 Select **TV ratings lock** with the cursor down. A list appears, showing the age-based TV ratings and a corresponding content-based ratings list.
- 2 Press the cursor right to enter the list.
- 3 Select an age-based TV rating with the cursor up/down, and enter, if present, the list with content-based ratings with the cursor right, and select one content-based rating.
- 4 Press **OK** to activate/de-activate the selected rating. You are asked to enter your PIN. (See Set/Change PIN, p. 9). If the code is correct, the TV ratings lock menu reappears.
- 5 Select another content-based rating if you like and press **OK** again. You need only enter your PIN-code once while the menu is active. You can lock/unlock any number of ratings on the list without re-entering your code.

Each ratings item has a box-graphic in front of it to indicate whether or not programs carrying that rating are currently locked:

- a yellow-colored box: all items in the contents-based list are locked as well;
- a blue-colored box: the item is unselected;
- a half blue, half yellow-colored box: some content-based ratings are selected/unselected.

When **All** has been selected, all items in the age-based and in the contents-based lists are locked.

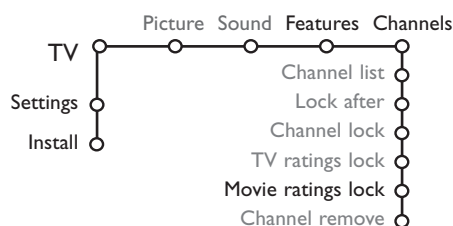
If, while **All** is selected, any other item, either an age-based or content-based item, is unselected, then **All** is automatically unselected.

None is the selection for items that either have no rating information or have a rating of None. Both will be locked.

When an item on the age-based list is selected, all items below that item of the same group are locked as well.

When you select a content-based rating, all identical content-based ratings in the younger age-based categories are also selected.

Movie Ratings Lock



NR	not rated
G	movies with a mild content, suitable for all ages
PG	movies for which parental guidance is recommended. They may contain a few racy or violent scenes or maybe some bad language
PG-13	movies for which parental guidance may be recommended if under age 13
R	restricted. The movies usually contain offensive sex or bad language and may be unsuitable for children under the age of 17. Parental guidance or permission needed.
NC-17	even with parental permission, forbidden under age 17. More offensive sex, violence or bad language.
X	movies which generally focus on sex, violence and/or bad language. Also known as pornography.

This function allows you to control access to individual movies based on their MPAA ratings (Motion Picture Association of America).

- 1 Select **Movie ratings lock** with the cursor down. A list appears, showing all valid MPAA content ratings.
- 2 Press the cursor right to enter the list.
- 3 Select a movie rating with the cursor up/down.
- 4 Press **OK** to activate/de-activate the selected rating. You are asked to enter your code. (See Set/Change PIN, p. 9.) If the code is correct, the Movie ratings lock menu reappears.

Each rating item has a box-graphic in front of it to indicate whether or not programs carrying that rating are currently locked:

- a yellow-colored box: movies with this rating are locked;
- a blue-colored box: movies with this rating are unlocked.

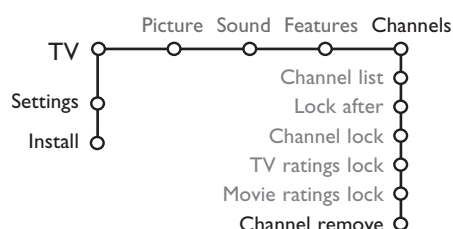
When **All** has been selected, all items on the movie ratings list become selected. (All movies are locked.)

If, while **All** is selected, any other item is unselected, then **All** is automatically unselected.

When **NR** has been selected, no other item is selected.

When any other item has been selected, all ratings below are selected as well, thus all movies with those ratings will be locked.

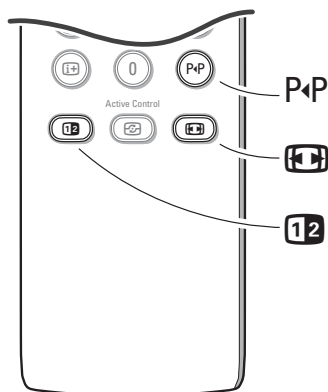
Channel remove



This feature provides the ability to remove a channel number from the channel list.

- 1 Select **Channel remove** with the cursor down.
- 2 Press the cursor right to enter a list with all stored channel numbers.
- 3 Select the channel you want to remove with the cursor down and press **OK**.
- 4 Repeat to remove other channels.

Dual screen / PIP / Multipip



Press the **12** button to switch on Dual screen or one of the PIP modes according to the format selection made in the Dual screen format list in the General menu. See Settings, General, p. 8.

Press the **12** button again. The screen that has a yellow border will become the full main screen picture.

Notes:

- Continuing to hold the **12** button down will cycle the TV through the various formats (Dual screen, Large PIP, Medium PIP, Small PIP, PIP3, PIP8 or PIP12) launching a new format after each second the button is held down. After standby of the TV, the preference as set in the Settings, General menu is used.
- It is not possible to display a VGA or HD source in a Dual screen/PIP screen.
- When Dual screen mode is selected, two picture formats are supported: Full screen or 4:3 letterbox picture format (vertical squeeze).
- Audio from the right screen or the PIP plays to the headphones.

Display options

Dual screen



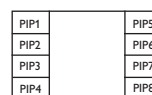
PIP



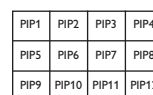
PIP 3



PIP 8



PIP 12



- Press the cursor right to highlight the right screen.
- Press the cursor down to highlight the single (large, medium or small) PIP screen.
- Press the cursor right to enter the Multipip screen and then use the cursor buttons to navigate through the PIP screens and to highlight a PIP screen.

Changing TV channels or external sources in left, right, PIP or Multipip screen

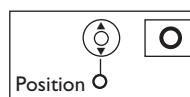
Press the **-CH+** button or the **P4P** button or the digit buttons in order to change the TV channels or external sources in the highlighted screen.

Scan PIP 3, PIP 8 or PIP 12

Press the cursor down to the lowest PIP to display a following series of PIP screens.

Define the position of the single PIP screen

- 1 Select a Dual screen mode with a single PIP screen.



- 2 Press the cursor down to highlight the PIP screen. A PIP menu appears with which you can define the position of the PIP screen.

*Note: When the PIP menu is timed out, press the **OK** button to make it reappear.*

- 3 Press the cursor down again to select **Position**.
- 4 Press the **OK** button or the cursor right to activate.
- 5 Use the cursor buttons to define the position of the PIP screen.
- 6 Press the **OK** button. The PIP menu reappears.
- 7 Press the cursor up twice to highlight the main screen again and press the **OK** button to switch off the menu.

On-Screen information

The highlighted On-Screen information, which appears when changing channels, always refers to the active screen.

Connect Accessory Devices

There is a wide range of audio and video devices that can be connected to your receiver. The following connection diagrams show you how to connect them to the back or the front side of the receiver.

Note: In case of the monitor in a stand alone situation without the receiver box connected, see the instructions with the monitor.

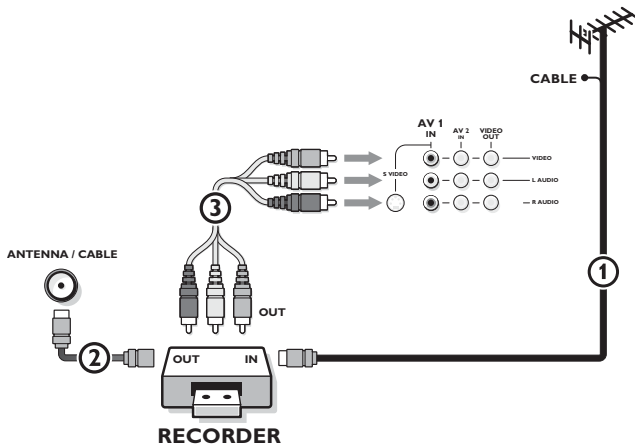
AV1 IN can handle CVBS and YPbPr; **AV2** and **AV3 IN** CVBS and Y/C; **AV4 IN** YPbPr 1080i, YPbPr 576p and YPbPr 480p; **AV5 IN** RGB 1080i, RGB 576p, RGB 480p, YPbPr 1080i and YPbPr 576p.

The low quality of some digital picture material may be the cause of digital image distortion.

*According to the connected digital equipment, select **DVD**, **Game**, **SAT** or **Digital STB** in the Settings/Source menu.*

*(In case the digital transmission is still poor, select the Auto Picture setting **SOFT** without changing the picture setting manually.)*

Recorder (VCR - DVD+RW)



Note: Do not place your recorder too close to the screen as some recorders may be susceptible for signals out of the display. Keep a minimum distance of 20" to the screen.

- 1 Connect the Cable TV cable ① to the **RF IN** socket of your recorder.
- 2 Connect another RF cable ② from the output **OUT** of your recorder to the receiver's **ANTENNA./CABLE** jack.
- 3 Better playback quality can be obtained if you also connect the Video, Audio Left and Right (only for stereo devices) AV cables ③ to the **VIDEO**, **L** and **R AUDIO** input **AV1 IN** jacks.

The **VIDEO OUT** connectors can be used for daisy chaining or to record programs from your TV. See Record with your recorder, p. 21.

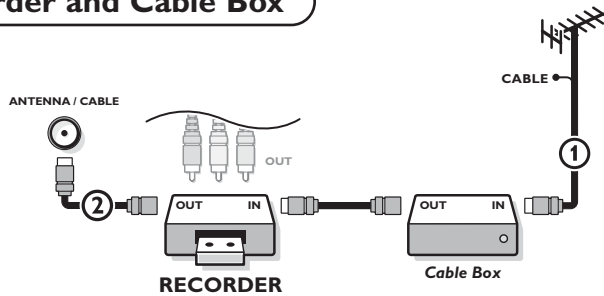
If your recorder has an S-VHS video jack:

For improved picture quality, connect a S-video cable with the **S-VIDEO** input instead of connecting the recorder to the **VIDEO** jack of **AV1 IN**.

S-Video does not provide audio, so audio cables must still be connected to provide sound.

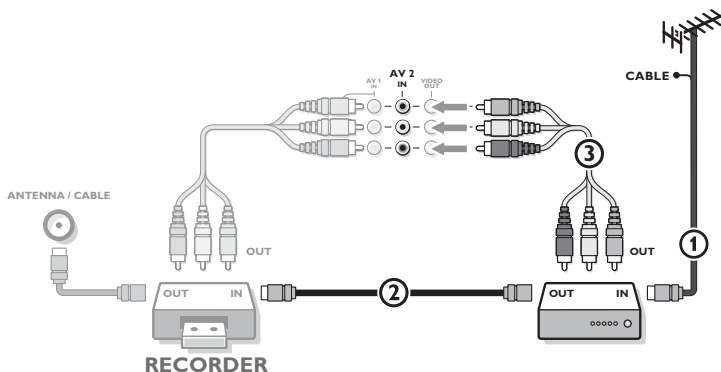
Note: You can also connect your recorder to the AV3 IN jacks.

Recorder and Cable Box



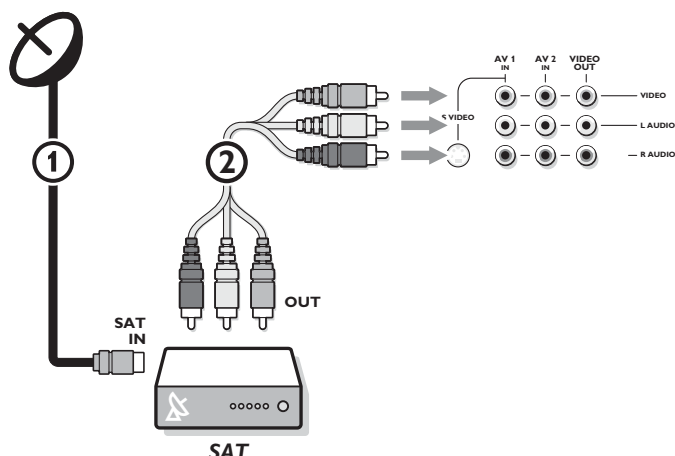
- 1 Connect the TV antenna cable ① to the cable box's **IN** jack.
- 2 Connect the cable box's **OUT** jack to the recorder's **RF IN** socket.
- 3 Proceed with the as above described procedure for recorder, starting with step ②.

Recorder with other AV peripherals



- 1 Interconnect your recorder with an extra RF cable ②.
- 2 To obtain better picture quality, also connect the Video, Audio left and Audio right (only for stereo devices) cables ③ to the **VIDEO**, **L** and **R AUDIO** input **AV2 IN** jacks.

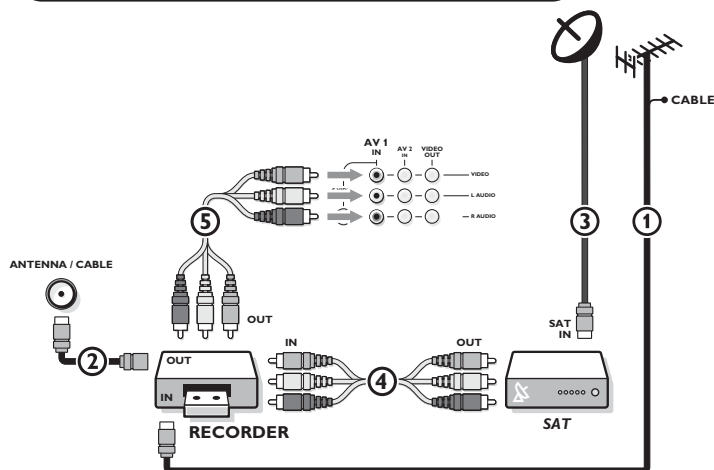
Satellite Receiver



- 1 Connect the satellite antenna cable ① to the satellite receiver's **SATELLITE IN** jack.
- 2 Connect the Video, Audio left and right (only for stereo devices), AV cables ② to the **VIDEO**, **L** and **R AUDIO** input **AV1 IN**, **AV2 IN** or **AV3 IN** jacks.

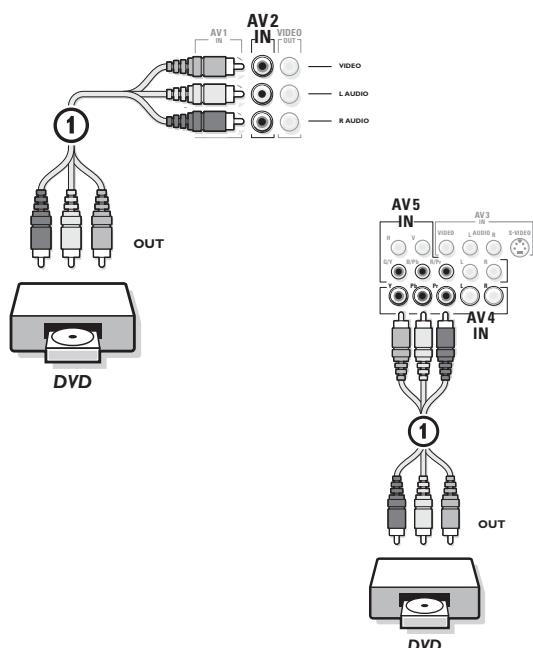
If your satellite receiver has an S-VHS video jack:
For improved picture quality, connect a S-VHS video cable with the **S-VIDEO** input instead of connecting the satellite receiver to the **VIDEO** jack of **AV1 IN** or **AV3 IN**.

Satellite Receiver with a recorder



- 1 Connect the Cable TV cable ① to the **RF IN** socket of your recorder.
- 2 Connect another RF cable ② from the output of your recorder to the receiver's **ANTENNA/CABLE** jack.
- 3 Connect the satellite antenna cable ③ to the satellite receiver's **SATELLITE IN** jack.
- 4 Connect the AV cables ④ to the satellite receiver's **AV OUT** jacks and to the recorder's **AV IN** jacks.
- 5 Connect the recorder's **AV OUT** jacks ⑤ to the receiver's **AV1**, **AV2** or **AV3 IN** jacks.

DVD Player



DVD player with AV connectors

Connect the AV cables to the DVD player's **AV OUT** jacks and to the receiver's **AV2 IN** jacks.

If your DVD player has an **S-VIDEO** out(put) jack:
Connect the AV cables to the DVD player's **AV OUT** jacks and to the receiver's **AV3 IN** jacks.
Connect an **S-VIDEO** cable with the **S-VIDEO** input instead of connecting the DVD player to the video jack.

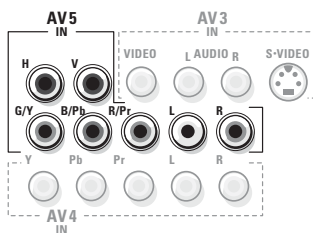
DVD player with Component Video Output Connectors (AV4)

- 1 Connect the three separate component video cables to the DVD player's **Y**, **Pb** and **Pr** jacks and to the **Y**, **Pb** and **Pr** **AV4 IN** jacks on the receiver.
- 2 Connect the audio cable to the DVD player's **AUDIO L** and **R** jacks and to the **L** and **R** audio **AV4** jacks on the receiver.

DVD player with Progressive scan output (480p 2 Fh)

Connect the DVD player to the **AV4** or **AV5 IN** jacks on the receiver. See AV5 Digital HD input, p. 18.

AV5 Digital Set Top Box



Connect your Set top Box to the **AV5** input.

Connect a Set top Box with 2 Fh RGB output to the **H, V, Y, Pb** and **Pr** jacks and to the **L** and **R AUDIO** jacks.

Connect a Set top Box with 2Fh Pr, Pb, Y output to the **Pr, Pb** and **Y** jacks and to the **L** and **R AUDIO** jacks.

See also the manual of your High Definition Set top Box.

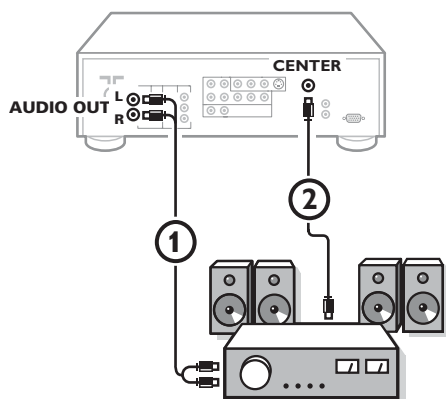
Note: This television is designed to accept high definition signal standards 480p, 576p and 1080i as specified by the Electronic Industries Association standard EIA770.3.

Set-top boxes from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.

Warning: in case you notice scrolling images, wrong colors or no color, no picture, or even combinations of these on your screen, check if the connections are done in the right way:

- for Y, Pb, Pr 2Fh: check if the cable colors match with the input connector colors
- for RGB-HV 2Fh: check additionally if the H and V cables are connected to the respective H and V input connectors, and if necessary exchange both connections.

Multi channel Surround receiver



- 1 Connect the audio cable to the multi channel Surround receiver and to **AUDIO OUT L** and **R** at the back of your TV receiver box ①.

Note: Turn off the TV and your surround receiver before connecting them. Set the Surround receiver's volume to minimum.

- 2 If you want the loudspeakers of your monitor to act as center speaker, also connect an audiocable to the multi channel Surround receiver and to the **SURROUND SOUND CENTER IN** at the back of your TV receiver box ②.


- 3 Select **Center input On** in the Source menu. See p. 9.

The loudspeakers of the monitor will now only produce center sound, the loudspeakers connected to the audio receiver will produce Surround Sound. The volume has to be controlled via the multi channel Surround receiver.

Note: No sound will be heard when a TV channel or external source is blocked via the Channel Lock menu (see p. 12).

Headphone



1 Insert the plug into the headphone socket  behind the door at the front side of the receiver. Press the center of the door to open.

2 Press  on the remote control to switch off the internal loudspeakers of the TV.

The headphone impedance must be between 8 and 2000 Ohm.
The headphone socket has a 3.5 mm jack.

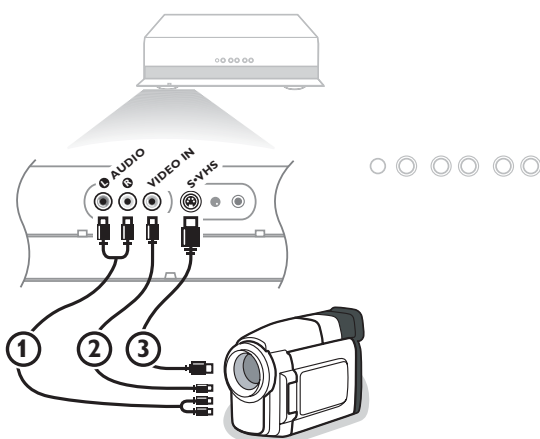
In the **SOUND** menu select **Headphone volume** to adjust the headphone volume.

Note: When a TV channel or external source is blocked via the Channel Lock menu (see p. 12), also the headphone is muted.

When Dual Screen/PIP is activated (see p. 15):

- if the main screen displays a TV channel picture, you hear the sound from the Dual Screen/PIP picture through your headphone.

Camera & camcorder



1 Connect your camera or camcorder to the front input behind the door at the front side of your receiver. Press the center of the door to open.

2 Connect the equipment to **VIDEO IN** ② and **AUDIO L** ① for mono equipment.

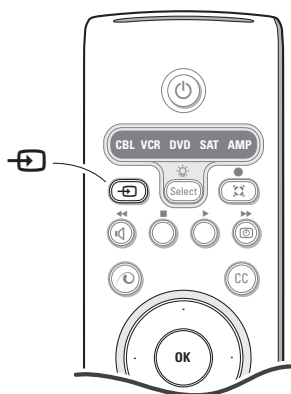
3 For stereo equipment also connect **AUDIO R** ①.

S-VHS quality with an S-VHS, Hi-8 or Digital camcorder is obtained by connecting the S-VHS cables with the **S-VHS** input ③ (instead of **VIDEO IN** ②) and **AUDIO** inputs ①.

Connect your computer

See the separate supplied instruction manual with your monitor.

To select connected devices



Devices connected to the rear or on the front side of the receiver box

1 Press the  button to select **AV1, AV2, AV3, AV4, AV5, FRONT, VGA** or **TV channels** according to where you connected your devices at the rear or on the front side of your receiver.

2 Press the cursor up/down.

3 Press **OK**.

Remark : most equipment (decoder, video recorder) carries out the switching itself. This is however never the case with a computer connected to the VGA input.

If you want to change to TV channels?

Enter the channel number of the TV channel which you want to watch with the digit buttons.

VGA menu

Only available when a VGA source has been connected and activated. See also the separate supplied instruction manual with your monitor.

Note : In case you connect your VGA source with a speakerless monitor and without having connected an audio receiver, all references made to sound reproduction are not applicable.

- 1 Select **VGA** with the button.
- 2 Press the **MENU** button to switch on the **VGA** menu.



- 3 Select one of the menus with the cursor left/right.**
Note: Only when you have chosen the US English language, the menu items will be displayed with additional icons.

- 4** Select one of the menu items with the cursor up/down. See the separate booklet supplied with the monitor.

Example:

The screenshot shows the TV's main menu with four categories: Picture 1, Picture 2, Sound, and Setup. The 'Picture 1' menu includes Brightness, Contrast, Color temp., and Sharpness. The 'Picture 2' menu includes (Format), Zoom, Zoom factor, (Shift), (Clock frequency), (Phase), and (Auto align). The 'Sound' menu includes Volume, Bass, Treble, and Sound mode. The 'Setup' menu includes Language, Power savings, AV3, and VGA2. The 'Language' option is highlighted, showing a list of languages: English, English, Nederlands, Deutsch, Français, and Español.











- 5 Press the cursor left/right to alter the selected adjustment.
- 6 Press the **MENU** button again to switch off the **VGA** menu.

Audio and video equipment buttons



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

Press one of the buttons after you pressed the **Select** button repeatedly according to the equipment you want to operate with this remote control. See Use of the remote control, p. 5.

- | | | | |
|---|--|---|--|
|  | to switch to standby (VCR) | 0 to 9 | digit entry, |
|  | for pause (DVD, CD) | P+P | tape index (VCR),
select a DVD chapter,
select a frequency (AMP) |
|  | for record, |  | VCR timer |
|  | for rewind (VCR, CD);
search down (DVD, AMP) |  | surround on/off (AMP, CD) |
|  | for stop, | cursor | up/down |
|  | for play, | | to select the next or the
previous disc (CD) |
|  | for fast forward (VCR, CD);
search up (DVD/AMP) | cursor | left/right |
|  | display information | | to select the previous or
following track (CD) |
| MENU to switch the menu on or off | | | |
| - CH + for chapter, channel, track
selection | | | |

Notes:

- If no action is being undertaken within 60 seconds, the remote control returns to TV mode.
- After an action in the selected system mode, the remote control will remain in this mode for 60 seconds and will then return to TV mode or press the **Select** button to return to TV mode immediately.

Record with your Recorder

To record S-VHS quality, connect an S-VHS peripheral directly to the recorder.

Record a TV program


You can record a TV program using your recorder's tuner without affecting your TV.

- 1 Select the channel number on your recorder.
- 2 Set your recorder to record.
See the handbook for your recorder.

Switching channel numbers on your TV does not disturb recording !

Record a recorder from VIDEO OUT

You can record a program on your recorder from the TV tuner via **VIDEO OUT**.


- 1 Switch on the device.
- 2 Select the correct channel on your TV and the correct input on your recorder.
- 3 Set your recorder to record.
You record the tuner channel of the TV, even when you switch to an AV input using the  button on the remote control.

*Do not switch channels or turn off your TV when you are recording through **VIDEO OUT**.*

Note: When a TV channel or AV source is blocked because of a rating set via the Channels menu (see p. 12), also the record output picture and sound are muted.

Setting the remote control to work accessory devices



Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable TV Converter Boxes, DVD players, Satellite Receivers, etc.



Press the **Select** button repeatedly to select **CBL, VCR, DVD, SAT** or **AMP** according to the accessory device you want to operate with this remote control. See Use of the Remote control, p. 5. Press the  button.

If the function buttons on the remote control also work the selected accessory device, then the remote is ready and no further steps are needed.

If the function buttons do not work with the selected accessory device, according to the device(s) you own, you may make your remote control ready for them by a direct entry code. Proceed as following.

Code setup

- 1 Press the **Select** and  buttons at the same time, then release.
- 2 **NOTE:** When inputting the digits as described below, you must not allow more than 20 seconds to pass between the input of each digit or you will need to return to step 1 and begin the programming process again.
Input the appropriate digit provided below for the type of accessory device you want to operate:
 - 1 Cable (CBL)
 - 2 VCR
 - 3 DVD
 - 4 Satellite (SAT)
 - 5 Amplifier (AMP).
- 3 Input the 4-digit code for the type and brand of accessory device. The codes are listed on pages 22-23.
- 4 The green light behind the  button will blink for 3 seconds to show that a valid code was input. If a valid code was not entered, the light will stay on continuously for 3 seconds. If that occurs, go back to step 1 and begin the programming process again.

- 5 Now you will try to use the TV remote with the accessory device. Press the **Select** button on the remote to cycle across the accessory mode dial. Stop pressing the button when the mode you desire is lighted. The light will stay on for 2 seconds and then begin blinking. The blinking means that the remote is in the accessory mode you have selected.
- 6 Within 60 seconds from the time the blinking starts, point the remote toward the accessory device and press the  button. If the device does not respond to the  command, follow the steps for programming the remote again using a different setup code for the type and brand of accessory device you wish to operate. Refer again to the code list on pages 22-23. If no more codes are listed for the type and brand of accessory device, the remote likely will not operate your particular model of accessory device.

Notes:

- Your TV remote is not necessarily capable of being programmed to operate all models of the brands of accessory devices listed on pages 22-23. You may want to try the programming process again. Try using the number(s) that are listed for your type and brand of device to be sure you did not make a mistake in inputting the digits during your first attempt at programming.
- If the remote control is in one of the accessory modes (a mode light is flashing) — CBL, VCR, DVD, SAT, AMP — and you don't press any of the remote buttons for sixty seconds, a "time-out" occurs, returning the remote to TV mode.

Remote Control Direct Entry Codes for Accessory Devices

Amplifier

Carver	.0296
Curtis Mathes	.0327
GE	.0105
JVC	.0358
Linn	.0296
Magnavox	.0296
Marantz	.0296
Optimus	.0422, 0327
Philips	.0296
Pioneer	.0327
Polk Audio	.0296
RCA	.0327
Realistic	.0422
Sony	.0716, 0247
Soundesign	.0105
Victor	.0358
Wards	.0105
Yamaha	.0381

Cable Box

ABC	.0030, 0034, 0035
Allegro	.0180, 0342
Americast	.0926
Archer	.0180, 0824
BellSouth	.0926
Century	.0180
Citizen	.0180, 0342
Comtronics	.0067
Contec	.0046
Emerson	.0824
Everquest	.0042, 0067
Focus	.0427
Garrard	.0180
Gemini	.0042
General Instrument	.0503, 0837
GoldStar	.0067, 0171
Goodmind	.0824
Hamlin	.0047, 0036, 0286, 0061
Hytex	.0034
Jasco	.0042, 0180, 0342
Jerrold	.0030, 0039, 0503, 0042, .0837
Memorex	.0027
Motorola	.1133
Movie Time	.0090
NSC	.0090
Oak	.0046, 0034
Optimus	.0048
Panasonic	.0048, 0134, 0027
Paragon	.0027
Philips	.0180, 0332, 0344
Pioneer	.0171, 0560, 0904
Popular Mechanics	.0427
Pulsar	.0027
Quasar	.0027
RCA	.0048
Radio Shack	.0042, 0910, 0342, 0824
Recoton	.0427
Regal	.0047, 0286
Runco	.0027
SL Marx	.0067
Samsung	.0067, 0171
Scientific Atlanta	.0035, 0504, 0904
Signal	.0042, 0067
Sprucer	.0048
Starcom	.0030, 0042
Stargate	.0067, 0042, 0824
Starquest	.0042
TV86	.0090
Televue	.0067
Tocom	.0039

Toshiba	.0027
Tusa	.0042
Unika	.0180
United Artists	.0034
Universal	.0180, 0218
Viewstar	.0090
Zenith	.0027, 0552, 0926
Zentek	.0427

Surround Sound Receiver

ADC	.0558
Aiwa	.0148
Capetronic	.0558
Carver	.0069, 1116, 1216
Casio	.0222
Clarinette	.0222
Denon	.1187, 1131
Fisher	.0069
Garrard	.0490
Harman/Kardon	.0137
JVC	.0101
Kenwood	.1054, 0069, 0213, 1340 .1596, 1597
Lloyd's	.0222
MCS	.0066
Magnavox	.0418, 1116, 0558, 1216 .0222
Marantz	.1116, 1216, 0066
Modulaire	.0222
Nakamichi	.0124
Onkyo	.0162
Optimus	.1050, 0213, 0558, 0069
Panasonic	.0066, 1545
Penney	.0222
Philips	.1116, 1216, 1296, 0418
Pioneer	.0177, 0558, 1050
Proscan	.1281
Quasar	.0066
RCA	.1281, 0558, 1050 .0222
Realistic	.0222
Sansui	.1116
Sharp	.0213
Sherwood	.0529
Sony	.1185, 1085, 1285
Sunfire	.1340
Teac	.0490
Technics	.0066, 1335, 1545, 1336
Thorens	.1216
Victor	.0101
Yamaha	.0203, 0213, 1203
Yorx	.0222

Satellite Receiver

AlphaStar	.0799
Echostar	.1032, 0802
Expressvu	.0802
GE	.0593
General Instrument	.0388, 0896, 0654
HTS	.0802
Hitachi	.0846
Hughes Network Systems	.0776
JVC	.0802
Jerrold	.0388, 0654
Magnavox	.0749, 0751
Memorex	.0751
Next Level	.0896
Panasonic	.0728
Philips	.1103, 0749, 0751
Primestar	.0654, 0388
RCA	.0593, 0170, 0419, 0882
Radio Shack	.0896
Samsung	.1136
Sony	.0666

Star Choice	.0896
Toshiba	.0776, 0817
Uniden	.0751, 0749
Zenith	.0883

VCR

Admiral	.0075, 0236
Adventura	.0027
Aiko	.0305
Aiwa	.0027, 0064
Akai	.0068
America Action	.0305
American High	.0062
Asha	.0267
Audiovox	.0064
Beaumarck	.0267
Bell & Howell	.0131
Broksonic	.0148, 0211, 0029, 0236, 0506
CCE	.0099, 0305
Calix	.0064
Canon	.0062
Carver	.0108
Cineral	.0305
Citizen	.0305, 0064
Colt	.0099
Craig	.0064, 0099, 0074, 0267, 0298
Curtis Mathes	.0062, 0068, 0087, 0189 .0787
Cybernex	.0267
Daewoo	.0305, 0072
Denon	.0069
Dynatech	.0027
Electrohome	.0064
Electrophonic	.0064
Emerex	.0059
Emerson	.0211, 0029, 0236, 0305, .0148, 0506, 0027, 0064, .0070
Fisher	.0074, 0131
Fuji	.0062
Funai	.0027
GE	.0062, 0087, 0075, 0267, .0787
Garrard	.0027
Go Video	.0459, 0553
GoldStar	.0064, 0065
Gradiente	.0027
HI-Q	.0074
Harley Davidson	.0027
Harman/Kardon	.0065, 0108
Harwood	.0099
Hitachi	.0069, 0027, 0068
Hughes Network Systems	.0069
JVC	.0094, 0068
Jensen	.0068
KEC	.0064, 0305
KLH	.0099
Kenwood	.0068, 0094, 0065
Kodak	.0062, 0064
LXI	.0064
Lloyd's	.0027
Logik	.0099
MEI	.0062
MGA	.0070, 0267
MGN Technology	.0267
MTC	.0027, 0267
Magnasonic	.0305
Magnavox	.0062, 0108, 0027, 0066, 0176

Remote Control Direct Entry Codes for Accessory Devices

VCR (continued)

Magnin	.0267
Marantz	.0108, 0062
Marta	.0064
Matsushita	.0062, 0189
Memorex	.0131, 0074, 0506, 0027 .0064, 0075, 0062, 0267 .0066, 0189, 0236, 1189
Minolta	.0069
Mitsubishi	.0070, 0075, 0094
Motorola	.0062, 0075
Multitech	.0027, 0099
NEC	.0065, 0068, 0094, 0131
Nikko	.0064
Noblex	.0267
Olympus	.0062
Optimus	.0189, 1189, 0075, 0064, .0131, 0459
Orion	.0506, 0029, 0211, 0236
Panasonic	.0062, 0189, 1189, 0643
Penney	.0062, 0267, 0064, 0069, 0065
Pentax	.0069
Philco	.0062, 0236, 0506
Philips	.0108, 0062, 0645
Pilot	.0064
Pioneer	.0094
Polk Audio	.0108
Profitronic	.0267
Proscan	.0087, 0787
Protec	.0099
Pulsar	.0066
Quasar	.0062, 0189, 1189
RCA	.0087, 0176, 0069, 0062, .0075, 0267, 0787
Radio Shack	.0027
Radix	.0064
Randex	.0064
Realistic	.0027, 0131, 0074, 0075, .0064, 0062
ReplayTV	.0641, 0643
Runco	.0066
STS	.0069
Samsung	.0072, 0267
Sanky	.0066, 0075
Sansui	.0068, 0506, 0027, 0094, 0236, 0298
Sanyo	.0074, 0131, 0267
Scott	.0211, 0148, 0070, 0072
Sears	.0064, 0069, 0027, 0062, .0074, 0131
Semp	.0072
Sharp	.0075
Shintom	.0099
Shogun	.0267
Singer	.0099
Sony	.0059, 0027, 0062, 0063
Sylvania	.0062, 0108, 0027, 0070
Symphonic	.0027
TMK	.0267
Tatung	.0068
Teac	.0027, 0068
Technics	.0062, 0189
Teknika	.0027, 0062, 0064
Thomas	.0027
Tivo	.0645, 0663
Toshiba	.0072, 0070
Totevision	.0064, 0267
Unitech	.0267
Vector	.0072
Vector Research	.0065
Video Concepts	.0072
Videosonic	.0267
Wards	.0062, 0087, 0027, 0074,


	.0267, 0069, 0075, 0099
	.0108, 0176, 0787
White Westinghouse	.0099, 0305, 0236
XR-1000	.0099, 0027, 0062
Yamaha	.0065
Zenith	.0066, 0027, 0236, 0506

Digital Video Disc (DVD)

Apex	.0699
Denon	.0517
Fisher	.0697
GE	.0549
Hitachi	.0691
Hiteker	.0699
JVC	.0650, 0585
Kenwood	.0709, 0561
Konka	.0746, 0738, 0747, 0748
Magnavox	.0530, 0702
Marantz	.0566
Mitsubishi	.0548
Onkyo	.0530
Optimus	.0598
Oritron	.0678
Panasonic	.0517, 0659
Philips	.0566, 0530
Pioneer	.0598, 0552, 0659
Proscan	.0549
RCA	.0549, 0598
Samsung	.0600
Sharp	.0657
Sony	.0560
Technics	.0517
Theta Digita	.0598
Toshiba	.0530
Yamaha	.0517, 0572
Zenith	.0618, 0530

Before Calling Service

Please make these simple checks before calling service. These tips may save you time and money since charges for television installation and adjustments of customer controls are not covered under your warranty.

Symptoms	Items to Check and Actions to follow
"Ghost" or double images	<ul style="list-style-type: none"> This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.
No power	<ul style="list-style-type: none"> Check that the receiver's AC power cord is plugged into the mains socket. Unplug the television, wait for 60 seconds. Then re-insert plug into the mains socket and turn on the television again.
No picture	<ul style="list-style-type: none"> Check antenna connections at the rear of the receiver to see if it is properly connected to the receiver. Possible broadcast station trouble. Try another channel. Adjust the contrast and brightness settings. Try another auto picture setting. Check the Closed Captions control. Some TEXT modes could block the screen. Switch your VGA-source to a correct display mode. Check the Audio only option.
No picture and power switched on	<ul style="list-style-type: none"> Your TV has a protective mode in case there is too much heat build-up. Check the clearance around the vents of the device to be certain there are no blocking walls or cabinets which would limit the air flow.
No sound	<ul style="list-style-type: none"> Increase the VOLUME. Check that the receiver/monitor is not muted, press the  button on the remote control. When no signal is detected, the receiver automatically switches off the sound. This is proper operation and does not indicate a malfunction. Has the center mode been switched off?
Good sound but poor color or no picture	<ul style="list-style-type: none"> Adjust the contrast, color, tint and brightness setting. Try another auto picture setting.
Poor picture	<ul style="list-style-type: none"> Check the VGA connection.
Snowish picture and noise	<ul style="list-style-type: none"> Check the antenna connection.
Television not responding to remote control	<ul style="list-style-type: none"> Check whether the batteries are working. Replace if necessary. Clean the remote control sensor lens on the monitor. Operating range between receiver and the remote control should not be more than 240". You can still use the buttons at the front of your receiver.
No stable or not synchronized VGA picture	<ul style="list-style-type: none"> Check if you have selected the correct VGA mode in your PC
Control of accessory devices	<ul style="list-style-type: none"> The infrared signals of the screen may influence the reception sensibility of other peripherals. Solution: Replace the batteries of the remote control of other devices. Eg. keep away a wireless headphone from within a radius of 50".

If your problem is not solved

Turn your TV receiver off and then on again once.

Never attempt to repair a defective TV yourself.

Check with your dealer or call a TV technician.

Telephone number Philips Customer Care Center
800-531-0039

Tips

Care of the screen

Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

End of life directives

We are paying a lot of attention to using environmentally-friendly production methods. Your new TV contains materials which can be recycled and reused. At the end of its life specialized companies can dismantle the discarded TV to concentrate the reusable materials and to

minimize the amount of materials that must be disposed.

Please ensure that you dispose of your old TV according to local regulations.

How to dispose of batteries?

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many areas batteries may not be disposed of with your household waste. Please ensure you dispose of batteries according to local regulations.

TV receiver box with speakerless monitor

In case you connect your TV receiver box with a speakerless monitor, all references made in this instruction book to sound reproduction, volume control, and audio connections, are not applicable (except for a headphone connection).

The buttons on the remote control referring to sound have no function either.

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 - channel selection, 7
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 - surf, 8
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 - volume, 5
- z** zoom, 12

Miscellaneous

- . Ambient temperature: + 5~ + 40°C
- . Mains: 50/60 Hz Auto Voltage ranging from 95 V to 264 V
- . Power consumption: around 35 W
- . Standby consumption: 2 W
- . Weight (excl. packaging): 8,82 lbs
- . Dimensions (wxhxd):
 - Receiver: 17.2 x 4.2 x 13.0 in.

Regulatory Notices - Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications -

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Philips Consumer Electronics may void the user's authority to operate the equipment.

Cables -

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

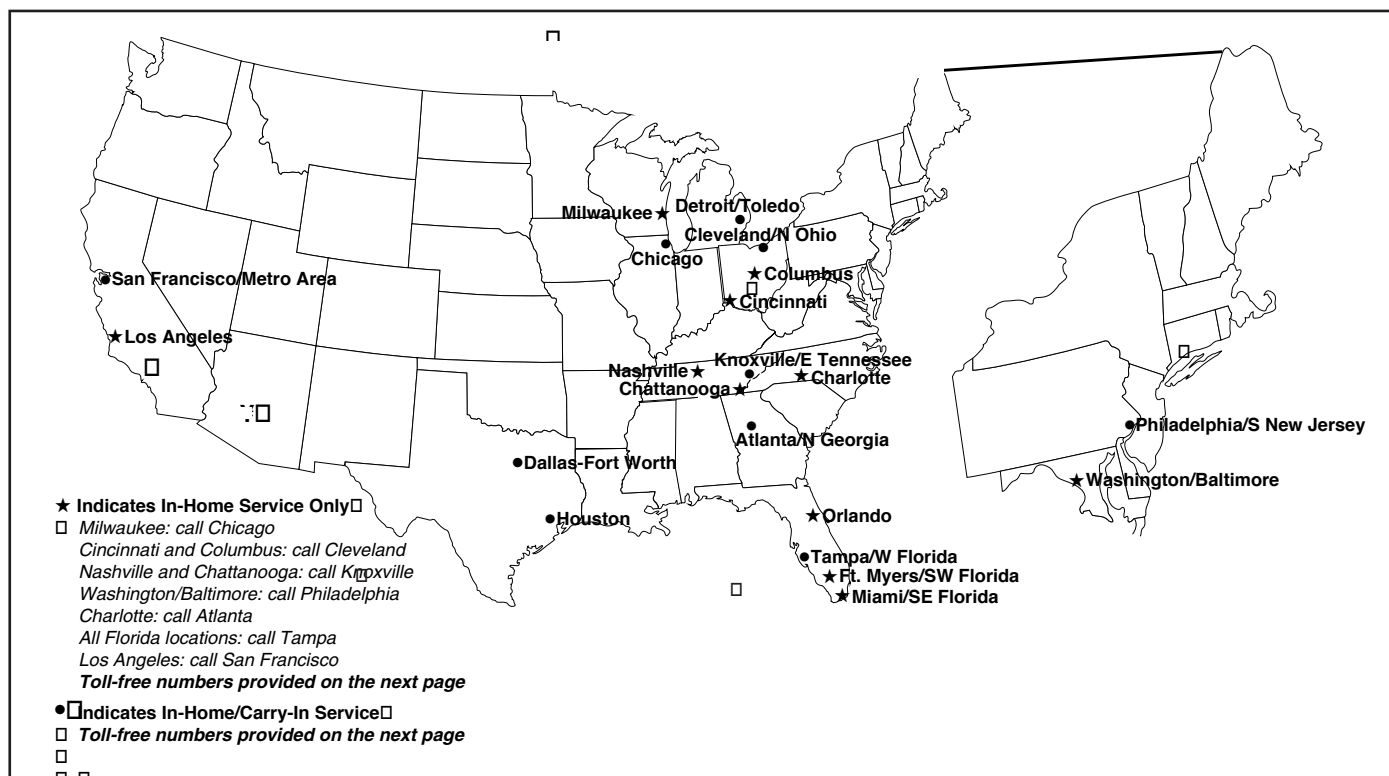
Canadian notice -

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien -

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

FACTORY SERVICE LOCATIONS



Note: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

Nota: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le center le plus près de chez vous.

Nota: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at

1-800-661-6162 (French speaking)

1-800-531-0039 (English or Spanish speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre center de service ou le service à domicile

Veuillez contacter philips à:

1-800-661-6162 (Francophone)

1-800-531-0039 (Anglais ou Espagnol)

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio

Favor de comunicarse con Philips al: 1-800-661-6162 (Francés)

1-800-531-0039 (Inglés o Español)

FACTORY SERVICE LOCATIONS

Quality service is as close as your telephone! Simply look over the list below for the number of a Factory Service Center near you. Your product will receive efficient and expedient carry-in, mail-in, or in-home service, and you will receive peace of mind, knowing your product is being given the expert attention of Philips' Factory Service.

Comment obtenir notre service après vente rapide et efficace soit par courrier, à domicile, ou en se présentant à un centre de service Philips. Plus de 600 centres de réception de produits à réparer à travers le pays: contacter le centre de service aux consommateurs le plus proche pour savoir l'emplacement de ces dépôts dans un rayon de 50 à 75 miles (80 km à 120 km) du centre de service local.

Cómo obtener un servicio oportuno y eficiente por correo, en casa o en persona para su producto a través de un centro Philips de servicio. Mas de 600 sitios por todo el país para la recepción de productos necesitados de reparaciones: comunicarse con el centro de servicio de fabrica mas cercano para estos lugares dentro de un radio de 80 a 120 km (50 a 75 millas) del centro de servicio local.

ATLANTA

Philips Factory Service
550 Franklin Road., Suite F
Marietta, GA 30067
800-273-1501

TAMPA

Philips Factory Service
1911 US Highway 301 North
Tampa, FL 33619
800-442-2027

SAN FRANCISCO

Philips Factory Service
681 East Brokaw Rd.
San Jose, CA 95112
800-300-9103

HOUSTON

Philips Factory Service
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
800-952-3254

CLEVELAND

Philips Factory Service
950 Keynote Circle
Brooklyn Heights, OH 44131
800-331-7037

DETROIT

Philips Factory
25173 Dequindre
Madison Heights, MI 48071
800-438-1398

DALLAS-FORT WORTH

Philips Factory Service
415 N. Main Street, #107
Euless, TX 76040
800-952-3254

CHICAGO

Philips Factory Service
1279 W. Hamilton Pkwy.
Itasca, IL 60143
800-531-2922

KNOXVILLE

Philips Factory Service
6700 D Papermill Rd.
Knoxville, TN 37919
800-821-1767

PHILADELPHIA

Philips Factory Service
352 Dunks Ferry Rd.
Bensalem, PA 19020
800-847-9320

LIMITED WARRANTY

One Year Free Labor

One Year Free Service on Parts

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For one year thereafter, all parts will be repaired or replaced and labor is free. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges. All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP ...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE ...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE....

Repair must be performed by an authorized service center or a factory service center. If you do not live near a factory service center, contact your dealer. If your dealer is an authorized service center, he will arrange repair. If your dealer is not an authorized service center he will direct you to the authorized service center engaged by him to service the products he sells.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

IF YOU HAVE QUESTIONS IN CANADA

Please contact Philips at:

1-800-661-6162 (French speaking)

1-800-363-7278 (English speaking)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____